

U. S. Steel Corporation Clairton Works:
14-Inch Mill Engines #1 and #2
400 State Street
Clairton
Allegheny County
Pennsylvania

HAER No. PA-49B

HAER
PA
2-CLAIR,
1B-

PHOTOGRAPHS

HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record
National Park Service
Department of the Interior
Washington, D. C. 20240

HISTORIC AMERICAN ENGINEERING RECORD

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U. S. STEEL CORPORATIN CLAIRTON WORKS:
14-INCH MILL ENGINES #1 and #2

HAER No. PA-49B

Location: 400 State Street
Clairton, Allegheny County, Pennsylvania

UTM: 17.595960.4461040
Quad: McKeesport, Pennsylvania

Date of Construction: 1907

Builder/Designer: Hooven, Owen & Rentschler
Hamilton, Ohio

Present Owner: U. S. Steel Corporation
Pittsburgh, Pennsylvania

Present Use: Still in use as of 1975

Significance: Specifications:

Type: Hamilton Corliss Horix Tandem Compound Cond.
Bore/Stroke: 24x44x48
Design HP: 2904 RPM: 96 (125 max) PSI: 150
Valves: HP, Corliss Double ported; LP, same
Flywheel Dia. & Face: 13'4" Pitch dia. (Rope
grooved)
Flywheel Type & Construction: CI, Rim section 244
in² 50,900 lbs.
Governor: Centrifugal, weighted ball 3% reg.
Bearings: 1 main, 1 outbore
Design Function: drives stands 1, 2, 3 & 6
Diameter steam pipe: 8"
Make & Size steam separator: Duff Construction Co.
4'-0" I.D. x 9'-4-3/4" high
Globe throttle (10") and Quick closing butterfly
valve
HP Exhaust pipe diameter: 12"
Size receiver: 17'6" x 30" dia.
LP Dia. Exhaust Pipe: 20"

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Type Bed: C.I. Heavy duty bored crosshead guide
19'-10-3/4" length of bed proper
42'-8" length including sole pattern
under cylinders
9'-6" extreme width

Cost: \$11,587 without wheels

Prepared for transmittal by: Jean P. Yearby, 1984, from data compiled by
Field Curry, 1975